CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18

Date: 12.09.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
AGENCY	:	**Sri. K.Damodar & Co,** Contractor, Bangalore.
NAME OF THE WORK	:	Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date : 12.09.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of Work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Date of Testing : 12.09.2017

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	125	12.50	20.90	79.1	75-100
1.18	215	21.50	42.40	57.6	55-90
600 Micron	160	16.00	58.40	41.6	35-59
300 Micron	210	21.00	79.40	20.6	8-30
150 Micron	152	15.20	94.60	5.4	0-10

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date : 12.09.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of Work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Date of Testing : 12.09.2017

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	385	2.57	2.57	97.43	95-100
20	7564	50.43	52.99	47.01	30-70
10	4125	27.50	80.49	19.51	10-35
4.75	2348	15.65	96.15	3.85	0-5

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date: : 12.09.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of Work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Date of Testing : 12.09.2017

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2563	51.3	54.9	45.1	25-55
4.75	1984	39.7	94.6	5.4	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date: 13.09.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Sri. K.Damodar & Co, Contractor, Bangalore.

Name of Work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Sample Identification : 8mm,10mm,12mm,16mm, Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 13.09.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.38	538	544	13.5
2	Fe 500	10	0.63	549	558	14
3	Fe 500	12	0.89	556	564	14.5
4	Fe 500	16	1.58	567	578	15.5

Remarks:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date: 25.09.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of the work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2017	25.09.2017	8.152	325.3	14.46
2	18.09.2017	25.09.2017	8.168	356.8	15.86
3	18.09.2017	25.09.2017	8.194	375.1	16.67

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date: 16.10.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of the work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2017	16.10.2017	8.215	495.6	22.03
2	18.09.2017	16.10.2017	8.228	518.9	23.06
3	18.09.2017	16.10.2017	8.264	526.4	23.40

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Lab No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date : 28.09.2017

GRADATION FOR GSB(Coarse Graded-1)
IS : 2720 (Part - 4)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Date of Testing : 28.09.2017

Sample Source : Mix Plant Bangalore. **Oven Dry Wt (gm) :** 6346

TABLE – 1

IS Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
26.5	1968	1968	31.01	68.99	55-75
4.75	2648	4616	72.74	27.26	10-30
0.075	1574	6190	97.54	2.46	<10
PAN	156				
Total	6346				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading I

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date : 28.09.2017

ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)
IS : 2720 (Part - 5)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBM[illegible]

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KDC/W.No.17/2017-18 Date : 04.10.2017

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. K.Damodar & Co,** Contractor, Bangalore.

Name of Work : Remodeling of Segregation Point, RCC Drain and Development of water body at JP Park (Muthyalanagara) in Ward No.17, BBMP, Bangalore.

Date of Testing : 04.10.2017

Material Type : Wet Mix Macadam

Oven Dry.Wt 12374

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	418	418	3.4	96.6	95-100
22.4	4265	4683	37.8	62.2	60-80
11.2	2385	7068	57.1	42.9	40-60
4.75	1864	8932	72.2	27.8	25-40
2.36	1128	10060	81.3	18.7	15-30
0.600	1036	11096	89.7	10.3	8-22
0.075	948	12044	97.3	2.7	0-8

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 90 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

Scanned by CamScanner